

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P506853

Luminaire Tested: **24PD-80-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

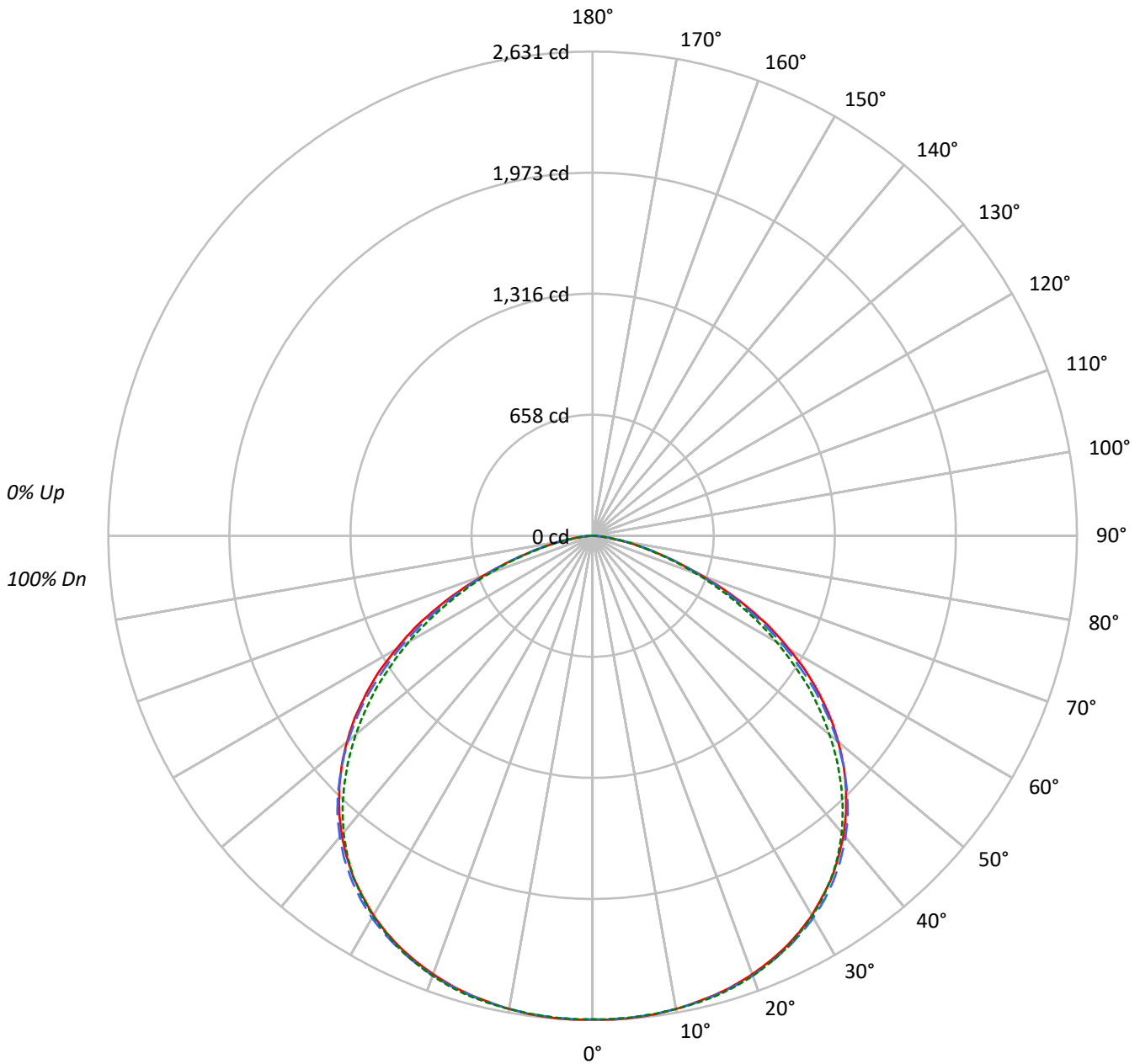
Test Method: LM-79-08  
Report Number: P506853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-80-PW1-L830  
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7708.1 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3537	3537	3537
5°	3549	3545	3545
10°	3567	3567	3568
15°	3596	3599	3606
20°	3630	3642	3644
25°	3668	3684	3679
30°	3701	3725	3708
35°	3722	3751	3718
40°	3726	3755	3698
45°	3704	3718	3629
50°	3647	3630	3516
55°	3530	3474	3350
60°	3316	3231	3104
65°	2990	2881	2764
70°	2465	2428	2338
75°	1884	1904	1827
80°	1308	1347	1319
85°	781	815	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	3.2
10°-20°	730.7	9.5
20°-30°	1142.8	14.8
30°-40°	1421.5	18.4
40°-50°	1493.9	19.4
50°-60°	1311.3	17.0
60°-70°	892.9	11.6
70°-80°	393.9	5.1
80°-90°	70.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2123.7	27.6
0°-40°	3545.2	46.0
0°-60°	6350.4	82.4
0°-90°	7708.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7708.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2628	2628	2628	2628	2628	
5°	2628	2627	2625	2622	2625	250
15°	2582	2584	2584	2584	2589	730
25°	2471	2477	2482	2480	2478	1139
35°	2266	2276	2284	2273	2264	1416
45°	1947	1959	1954	1922	1907	1499
55°	1505	1499	1481	1442	1428	1341
65°	939	916	905	885	868	926
75°	362	365	366	360	352	397
85°	51	53	53	52	51	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2628.5	2628.5	2628.5	2628.5	2628.5
2.5°	2631.4	2630.0	2628.5	2626.3	2628.5
5°	2627.8	2627.0	2624.8	2621.9	2624.8
7.5°	2621.9	2621.9	2619.7	2617.5	2619.0
10°	2610.9	2613.1	2610.9	2608.7	2611.6
12.5°	2596.2	2599.9	2599.2	2599.2	2601.4
15°	2581.5	2584.5	2583.7	2583.7	2588.9
17.5°	2561.0	2564.7	2565.4	2566.9	2569.8
20°	2535.3	2540.5	2543.4	2542.7	2544.9
22.5°	2505.2	2511.1	2513.3	2514.8	2513.3
25°	2470.7	2477.3	2481.7	2480.3	2478.1
27.5°	2428.9	2436.2	2442.1	2438.5	2434.0
30°	2381.9	2388.6	2397.4	2390.8	2386.4
32.5°	2324.0	2336.5	2344.5	2336.5	2329.8
35°	2266.0	2276.3	2283.6	2272.6	2263.8
37.5°	2195.6	2208.0	2214.6	2199.2	2189.7
40°	2121.4	2133.9	2137.6	2117.8	2105.3
42.5°	2037.1	2051.0	2052.5	2024.6	2010.6
45°	1946.8	1959.3	1954.1	1921.8	1907.2
47.5°	1849.2	1858.0	1847.0	1814.0	1797.8
50°	1742.1	1747.2	1734.0	1695.1	1679.7
52.5°	1629.1	1628.3	1611.4	1572.6	1555.7
55°	1505.0	1499.2	1480.8	1441.9	1428.0
57.5°	1378.1	1359.7	1339.9	1306.9	1288.6
60°	1232.1	1218.1	1200.5	1167.5	1153.5
62.5°	1094.1	1069.2	1054.5	1025.1	1012.7
65°	939.3	916.5	904.8	885.0	868.1
67.5°	783.7	766.1	758.0	744.1	728.7
70°	626.7	621.5	617.1	603.9	594.4
72.5°	488.0	486.5	485.8	478.4	468.9
75°	362.5	364.7	366.2	359.6	351.5
77.5°	258.3	262.0	261.2	257.6	255.4
80°	168.8	171.7	173.9	170.2	170.2
82.5°	102.0	104.9	104.2	105.7	102.7
85°	50.6	52.8	52.8	52.1	51.4
87.5°	18.3	19.1	18.3	19.1	18.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)